

## Publication

### a. Articles in peer-reviewed journals

- (1) Adeleke, A.A., Ikubani, P.P., Odusote, J.O., Kolawole, L.T., **Orhadahwe, T.A.**, Lawal, M.S. (2023). Physico-mechanical properties of polymer matrix composite material reinforced by carbonized cassava back peel and iron fillings. Accepted for publication in ACTA Metallurgical Slovaca (Scopus Indexed)
- (2) **Orhadahwe T.A.**, Ajide, O.E.E., Adeleke, A.A. (2023). Investigation of date palm seed as a reinforcement in aluminium matrix composites. The 2nd International Conference on Multidisciplinary Engineering and Applied Sciences. Accepted for publication in IEEE Conference Proceedings (Scopus Indexed)
- (3) Odusote, J. K., Adeleke, A. A., Ikubanni, P. P., Asafa, T. B., Kolawole, S. K., Opatola, E. A., ... & **Orhadahwe, T. A.** (2023). Silver–Gold Synthesized Nanoparticle as Corrosion Inhibitor on Mild Steel in 1.0 M HCl Environment. *Chemistry Africa*, 1-14.
- (4) Akinwonmi, A. S., Adeaga, O. A., & **Orhadahwe, T. A.** (2023, April). Investigation of Diesel Blends with Edible Vegetable Oils for Combustion in Swirl Burners. In *2023 International Conference on Science, Engineering and Business for Sustainable Development Goals (SEB-SDG)* (Vol. 1, pp. 1-9). IEEE.
- (5) Adeleke, A.A., Makanjuola, O., Anyim, I.K., Ikubanni, P.P, Balogun, A.A., **Orhadahwe, T.A.**, Omoniyi, P., Olabisi, A.S., Akinlabi, E. (2022). Recent Development in Casting Technology: A Pragmatic Review. *Journal of Composite and Advanced Materials*, 32(2), 91-102. Scopus Indexed
- (6) Adeleke, A.A., Ikubanni, P.P., **Orhadahwe, T.A.**, Chiebuka, T.C. (2022). Optimization of densification parameters for lean grade subbituminous coal. Accepted for publication in *Petroleum and Coal Journal*. Scopus Indexed
- (7) Adeleke, A.A., Ikubanni, P.P., **Orhadahwe, T.A.**, Akano, J.M., Agboola, O.O., Adegoke, S.O., Balogun, A.O., Ibikunle, R.O. (2021). Sustainability of the Biomass Multifaceted Usage: A Review. *Heliyon*, 7(9), 1-75. <https://doi.org/10.1016/j.heliyon.2021.e08025>. Scopus Indexed
- (8) Adeleke, A.A., Ikubanni, P.P., Odusote, J.K., **Orhadahwe, T.A.**, Lasode, O.A. Adegoke S.O. and Adesina O.S. (2021): Non-isothermal kinetic parametric evaluation of *Tectona grandis* using model-fitting methods, *Materials Today: Proceedings*, 44(1), 2874-2878 <https://doi.org/10.1016/j.matpr.2020.12.1171>. Scopus Indexed
- (9) Singh H., Adeleke, A.A. Singh C., Ikubanni, P.P., **Orhadahwe T.A.** and Agboola, O.O. (2021): Agglomeration of Pet coke and Rice Straw as Mixed Fuel for Power Generation. *Petroleum and Coal*, 65(2), 356-365.
- (10) Adeleke, A.A., Odusote, J.K., Ikubanni, P.P., **Orhadahwe T.A.**, Lasode O.A., Ammasi A. and Kumar K. (2021): Ash Analyses of Bio-Coal Briquettes Produced using Blended

Binder, *Scientific Report, Nature*, 547(11), <https://doi.org/10.1038/s41598-020-79510-9>.  
Scopus Indexed

(11) **T. A. Orhadahwe**, O. O. Ajide, A. A. Adeleke & P. P. Ikubanni (2020) A review on primary synthesis and secondary treatment of aluminium matrix composites, *Arab Journal of Basic and Applied Sciences*, 27:1, 389-405, DOI: 10.1080/25765299.2020.1830529, Scopus Indexed

(12) Ohijeagbon, I.O., Adeleke, A.A., Ikubanni P.P., **Orhadahwe, T.A.**, Adebayo, G.E., Adekunle A.S., Omotosho A.O (2021): Development of Methodology for Characterization of Surface Roughness of Solid Metallic Surfaces using Oil Slippage Method, *Latvian Journal of Physics and Technical Sciences*, 58(4), 43-54. (Scopus Indexed)

(13) **Orhadahwe, T.A.**, Adeleke, A.A., Ikubanni, P.P. and Agboola, O.O. (2020); Evaluating the Effectiveness of Maintenance Practice: Case Study of a University Power Generating Plant Unit, *Engineering and Applied Science Research*, 47(2), 170-174, <https://ph01.tci-thaijo.org/index.php/easr/article/view/215159> Scopus Indexed

(14) **Orhadahwe, T.A.**, Adeleke, A.A., Aweda, J.A., Ikubanni, P.P. and Odusote, J.K. (2020): Microstructural Image Analyses of Mild Carbon Steel Subjected to Rapid Cyclic Heat Treatment, Accepted for publication in *Journal of Chemical Technology and Metallurgy*. 55(1), 198-208, [http://dl.uctm.edu/journal/web/j2020-1-26\\_19-31\\_p\\_198-209.pdf](http://dl.uctm.edu/journal/web/j2020-1-26_19-31_p_198-209.pdf), (Scopus Indexed)

(15) Adeleke, A.A., Ikubanni P.P., **Orhadahwe, T.A.**, Aweda J.O., Odusote J.K. and Agboola O.O. (2019); Microstructural assessment of AISI 1021 Steel under rapid cyclic heat treatment, *Results in Engineering, Elsevier Publisher*, 4, 100044, <http://doi.org/10.1016/j.rineng.2019.100044> (Scopus indexed).

(16) Aweda, J.O., **Orhadahwe, T.A.** and Ohijeagbon, I.O. (2018): Rapid Cyclic Heating of Mild Steel and its Effects on Microstructure and Mechanical Properties, *IOP Conference Series: Materials Science and Engineering*, 413 <https://iopscience.iop.org/article/10.1088/1757-899X/413/1/012016> (Scopus Indexed)

(17) Adeleke, A.A., Ikubanni, P.P., Odusote, J.K., **Orhadahwe, T.A.**, Lasode, O.A. Adegoke S.O. and Adesina O.S. (2021): Evaluation of non-isothermal kinetic parameters for pyrolysis of *Teak wood* using model-fitting techniques, *Trends in Sciences*, 18(24): 1432 Scopus Indexed

### **b. Articles in Press**

(1) Adeleke, A.A., Lawal, M.S., Ikubanni P.P., Anosike-Francis, E., Lawal I.A., **Orhadahwe, T.A.**, Olosho, A. (2023). Recent trends in magnesium metal composites: a review. The 2<sup>nd</sup> International Conference on Multidisciplinary Engineering and Applied Sciences

(2) **Orhadahwe T.A.**, Ajide, O.E.E., Adeleke, A.A. (2023). Investigation of date palm seed as a reinforcement in aluminium matrix composites. The 2<sup>nd</sup> International Conference on Multidisciplinary Engineering and Applied Sciences

- (3) Adeleke, A.A., Ikubanni, P.P., Lawal, M.S., Ogedengbe, T., Anosike-Francis, E., SULEIMAN, S., Daniel, F.C., **Orhadahwe, T.A.**, (2023). Advancements in titanium for biomedical applications: a review. The 2nd International Conference on Multidisciplinary Engineering and Applied Sciences
- (4) Peter Ikubanni, Esther Anosike-Francis, Adekunle Adeleke, Adebayo Olosho, Muhammad Attah Abdullahi, Ahmed Lawan, **Thomas Orhadahwe**, Ammasi Ayyandurai and Adeiza Samuel (2023). Reinforcement from biomass ash for metal matrix development: a review. The 2nd International Conference on Multidisciplinary Engineering and Applied Sciences
- (5) Obu S.C.V., Adeleke, A.A., Ikubanni, P.P., **Orhadahwe, T.A.**, Dike, C.P., Samuel, A.A., Omioibemi, I.M.B., Odusote, J.K. (2023). Production of Charcoal Briquette from Carbonized Coconut Shell and Sawdust. Submitted to Petroleum and Coal (Scopus Indexed).
- (6) Ogundola A.C., **Orhadahwe, T.A.**, Ojetoye, A.O., Emmanuel, C.O, Ogundola O.C. (2023). Development of a computational model for the estimation of biogas production from putrescible wastes. Submitted to Engineering and Applied Science Research (EASR) (Scopus Indexed)
- (7) Saidu, N.S., Aladodo, M.A., Ajimotokan, HA, Adeleke, A.A., Orhadahwe, T.A., Ikubanni, P.P., Odusote, J.K., Lawal, M.S. (2023). Effects of densification characteristics and torrefaction on quality and thermal properties of pelletised corncob residues. Submitted to Reports in Mechanical Engineering (Scopus Indexed)

### **c. Other Author's Manuscript Reviewed as a Reviewer**

1. Dry sliding wear behavior of mica, fly ash and red mud particles reinforced Al7075 alloy hybrid metal matrix composites (2021). *Indian Journal of Science and Technology Research*
2. Impact analysis of hardness behavior of designed aluminium ceramic composites prepared through stir casting (2023). *Indian Journal of Science and Technology Research*.
3. Simulation technology in renewable energy generation: A review (2023). The 2nd International Conference on Multidisciplinary Engineering and Applied Sciences
4. Renewable energy from various biomass. The 2nd International Conference on Multidisciplinary Engineering and Applied Sciences